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|  Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT Date Submitted: August 1, 2005 (Use as many sheets as necessary) | | Complete if Known | |
| Application Number | | 10/659,153 | |
| Filing Date | | 09/10/2003 | |
| First Named Inventor | | David G. Grier | |
| Group Art Unit | | 2621 | |
| Examiner Name | | | |
| Attorney Docket Number | | 040563-0167 | |

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| Examiner Signature | ZIA R. HASMI | Date Considered | 9/13/05 |
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| Sheet | 2 | of | 2 |
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| NON PATENT LITERATURE DOCUMENTS | | | |
|---------------------------------|-----------------------|--|----------------|
| Examiner Initials* | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published. | T ⁶ |
| W | | Kreminskaya, L. V. et al., "The Gaussian Lenses Give Birth to Optical Vortices in Laser Beams", Optics Communications, Elsevier, Netherlands, Vol. 145, No. 1-6, January 1, 1988, Pages 377-384. | |
| | | Heckenberg, N. R. et al., "Trapping Microscopic Particles with the Singular Beams", Proceedings of the SPIE - The International Society for Optical Engineering, vol. 3487, 1998, pages 46-53. | |
| | | Khizhnyak, A. I. et al., "Optical Singularity's Are Induced in Gaussian Laser Beams by Kerr-like Medium: Geometrical Optics Study", Proceedings of the SPIE - The International Society for Optical Engineering, vol. 3486, 1998, pages 63-67. | |
| | | Rodrigo, Peter John et al., "Shack-Hartmann Multiple-Beam Optical Tweezers", Optics Express, Vol. 11, No. 3 | |
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| Examiner Signature | Zia R. Hashmi | Date Considered | 9/13/05 |
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